# Physicists produce exciting electron phenomena

of T were among the team that earlier this month produced the world's most powerful man-made stream of electrons at the Fermi National Accelerator Laboratory near Batavia, Ill.

They intend now to use the machine to investigate experimentally the exciting new phenomena reported independently this week from Stanford Linear Accelerator Center in California, and from Brookhaven National Laboratory in Long Island, where particles with excep-tional characteristics were produced by making electrons collide head-on with positrons.

The scientists are Profs. James Prentice and G.J. Luste and research associate Dr. Phil Davis. The group have also employed very sophisticated equipment in Toronto to analyse photographs they took, using the giant atom smasher of the Argonne National Laboratory in Chicago. The Batavia machine is realizing 250 billion electron volt energies at present, and is expected to reach 300 billion shortly, compared with the Argonne machine's 10 billion volt potential.

Three other U of T professors, T.J. O'Donnell, R.H. Graham and J.W. Moffat, at the same time are actively engaged in trying to understand the latest experimental results from a theoretical point of view. Prof. O'Donnell, who has a cross-appointment with Scarborough College, discusses the latest development in an article on Page 4.



## UNIVERSITY of TORONTO

A publication of The University News Bureau, 45 Willcocks Street (928-2102)

29th NOVEMBER 1974

# Asking early start on parking garages

After six months of study with a five-man academic and administra-tion group, Vice-President Jill Conway has recommended to the Internal Affairs Committee of Governing Council that the University proceed at once with the first two of three parking garages on the St. George campus.

The structures would be built consecutively rather than concurrently so that their impact on parking patterns could be monitored and

#### The administration's recommendations

No. 15

28th Year

Prof. Conway submitted these proposals:

The University could first build a 300-car ramp-type garage at the eastern end of the Medical Sciences building on the site of the old power plant. The building would be landscaped so that it would not on the Queen's Park environment. Spreading the capital cost across all parking permit holders would mean an increase of about 17 per cent. in the permit rate and would involve raising the transient charge by 20 per cent.

Next a 300-car parking ramp garage could be built on the site of a parking lot now in use at Spadina Ave. and Bancroft St., beside the Graduate Students' Union. This would require an increase of about 19

per cent. in rates charged parking permit holders.

#### Underground parking - the third stage

A 600-car underground parking facility - the third stage erected on the present parking lot on the east side of St. George St. about opposite Sussex Ave. Sufficient information has not yet been obtained to determine the costs of such a below-grade facility. time phase 3 is reached", the report says, "it would be possible to assess whether the requirements of new construction such as the Athletics Complex necessitated the provision of additional spaces or whether it would be possible to bring about a further reduction in other surface parking areas.'

Prof. Conway pointed out that there would be "no significant change in the number of spaces available on campus during stage 1. It is therefore recommended that implementation begin at once and that discussions with the T.T.C. about improved transit to and from the campus and nearest subway stations be developed concurrently with planning for stage 2.

#### Based upon the overall parking policy

The recommendations have been based upon the guidelines for parking policy approved by Governing Council last March, at which time the administration was asked for detailed proposals after consultation with experts in traffic management and consideration of the financial and technical aspects of the policy.

Members of the group which worked with Prof. Conway on the plan were: Prof. I.R. Dalton, Electrical Engineering; Prof. William G. Dean, Geography; Prof. J.G.C. Templeton, Industrial Engineering; Frank Hastie, Physical Plant; and Alex Malcolm, Administrative Services.

#### Prize to honour Dr C B Farrar

At the official opening on Wednesday of the Clarke Insti-tute's exhibit, "100 years of psychiatry", commemorating the late Dr. C.B. Farrar (see Exhibitions), the Institute announced a \$1,000 research award in Dr.
Farrar's honour. The prize will be
awarded bi-annually for the best
paper presented on psychiatric

Dr. Farrar was professor of psychiatry at the U of T from 1926 until his death at age 95 in 1970, and was editor of the American Journal of Psychiatry for 34 years.





University College Principal A.C.H. Hallett "robes" Dr. Eva Waddell Mader Macdonald immediately after her installation as the 25th Chancellor at Convocation on Wednesday evening. Convocation was packed for the occasion, at which honorary and undergraduate degrees were conferred.

## The University's 25th Chancellor installed

Wednesday, Nov. 27, 1974. An historic day in the life of

the University. So said President John R. Evans at the Convocation that evening.

That was the occasion when:
Dr. Eva Waddell Mader
Macdonald was installed as the
25th Chancellor of the University of Toronto and King's College, as it was known from 1827 to 1850. The oath of office was admini-stered by Mrs. Vivian McDonough, president of the University of Toronto Alumni Asso-ciation. (The Chancellor is elected by alumni.)

The honorary degree of Doctor of Laws was conferred upon Professor Donald G. Creighton, now retired after half a century as a scholar of history at the Univer-sity, and Winona Grace MacInnis, former M.P., daughter of the late

James S. Woodsworth, founder of the C.C.F., for whom U of T's newest college has been named. Lieutenant-Governor Pauline McGibbon, first woman Chancellor and the immediate pre-decessor of Dr. Macdonald in the office, was present to wish her successor well.

Graduates of Woodsworth College, who had begun their student days as Extension students and who now have this college as their own, received undergraduate de-grees, as did full-time students in Arts and Science and other facul-ties.

The presidents of York, Queen's, Windsor, and Trent universities were in the academic procession as an expression of the cordial relationships prevailing be-tween U of T and its sister univer-

#### SEE OTHER PAGES FOR:

Pictures of Convocation and a Woodsworth Week event-PAGE 3 Athletic events this weekend-PAGE 4

## **COMING EVENTS**

#### NOVEMBER

30 SATURDAY

Lecture: Astronomy - "The En-vironment on Other Worlds". Dr. Peter M. Millman, Head of Upper Atmosphere Research, Research Council of Canada. Convocation 8.15 p.m. (Royal Canadian

Institute) Music - University of Toronto Music – University of Toronto Symphony Orchestra, conductor Victor Feldbrill. MacMillan Theatre, Edward Johnson Building, 8.30 p.m. Free reserved tickets available from box office. Limit 2 per person. Enclose stamped addressed envelope

#### DECEMBER

I SUNDAY

Music - Christmas Concert Hart House Chorus, directed by Denise Narcisse-Mair. Great Hall, Hart House, 8,30 p.m. Free Music - University of Toronto Concert Band; conductor, Ezra Schabas. MacMillan Theatre, Edward Johnson Building. 3 p.m. o tickets, no charge (Music) Lusic - Classical Brass - w Music - Classical by Bach, Schein, Scheidt, Beethoven and Joplin, performed by a brass quintet. Meeting Place, Scarborough College. 3.30 p.m.

2 MONDAY
Seminar: Medicine - "LH and Seminar: Medicine - "LH and HCG Receptors of Testis and Ovary." Dr. Maria L. Dufau, Na-Ovary." Dr. Maria L. Dulau, Na-tional Institute of Child Health and Human Development, Bethesda, Md. 419 Best Institute. 4 p.m. (Banting and Best)

Exhibition: on slides of David Jones (artist-poet 1895–1974) of his paintings, drawings, lettering and books with recorded commentary by him. Lent by Britist Council, Ottawa. 106 U.C. 4.10 p.m. (Graduate English and English II.C.)

3 TUESDAY

Lecture: Medicine - "Neural Correlates of Reason and Liber-ty." Dr. R.J. Grimm, Neurological Sciences Institute, Good Samaritan Hospital, Portland, Ore. 2172 Medical Sciences Building. 5 p.m. (Neuroscience Institute a Toronto Neurological Society) Colloquium: Mathematics

Toronto Neurological Society)
Colloquim: Mathematics "Mathematics, Statistical Theory
and Computing." Prof. John W.
Tukey, Princeton University and
Bell Laboratories. 2117 Sidney
Smith Half. 4 p.m. (coffee served 3.30 SS 5017-B) (Mathematics) Colloquium: Chemistry –
"Nuclear Magnetic Resonance
Studies of Metal Ion Complexes with Nucleotides and Enzymes."
Prof. G. Kotowycz, University of
Alberta. 428 Lash Miller Chemical Laboratories, 4 p.m. (Chemistry) Lecture: "Pablo-Neruda o la gen-eralidad del canto." Prof. Alain Sicard, Director, Centre of Latin American Research, University of

Poitiers. Upper Library, Massey College. 4.10 p.m. (Latin American Studies Committee, ISP)
Seminar: Dentistry — "Rhizotomy Triggered Herpes Simplex
Virus Infections in Man." Dr. R.J.
Grimm, Portland, Ore. 2394 Medical Sciences Building. 12
noon—1 p.m. (Dentistry)
Music — Taylor-Remeny Trio:
Janiec Taylor, contraito: Romeld can Studies Committee, ISP)

moon-1 p.m. (Dentistry)
Music - Taylor-Remeny Trio:
Janice Taylor, contralto; Ronald
Taylor, flute; Susana Remeny,

harp. Concert Hall, 273 Bloor St. W. 12.15 to 12.45 p.m. (Royal Conservatory of Music)

4 WEDNESDAY

Lecture: Mathematics - "Mathematics and the Picturing of Data." Prof. John W. Tukey. 1070 Sidney Smith Hall. 1 p.m. (Mathe-Mathematics - "Math-

Lecture: Medicine - "Compara-Lecture: Medicine - "Compara-tive Physiology of the Lung." Dr. David Leith, Harvard University. 4279 Medical Sciences Building. 4

p.m. (Respirology Group)
Lecture: Dentistry – "The Collagens of the Oral Cavity." Dr. D. lagens of the Oral Cavity. Dr. Dr. Carmichael, R.S. McLaughlin Visiting Scientist. 108 Dentistry Building. 1 to 2 p.m. (Dentistry Meeting – University Arts Women's Club annual Christmas men's Club annual Christmas party. Dr. Peggi Sampson, Faculty of Fine Arts, York University, with an ensemble of her music students, will perform. At the home of Mrs. J.R. Evans, 93 Highland Ave. 8 p.m.

Planta Ave. 8 p.lli.
Drama – Bloomers: plays by
Eliot, Strachey, Mansfield and
Woolf. Glen Morris Studio
Theatre, U of T. 8.30 p.m. Dec. 4,
5, 6, and 7. Free. For further details and reservations call 928-8705 (Drama Centre)

Radio – "God and His Creation – View of Islamic Philosophers." CJRT-FM (91.1) 10 a.m. and 7.30 p.m. (Islamic Studies and Open College)

Films: Claire Hopen will show anthropological films of Africa. S-309 Scarborough College, 12

noon. Christmas Tree - Annual Christmas program of music, carols and stories. Great Hall, Hart House. 8 p.m. Free for members

5 THURSDAY

5 THURSDAY Lecture: Medieval – "The Late Medieval Definition of Litera-ture." Prof. J.B. Allen, Marquette University. 404 Carr Hall. 4.15 p.m. (Medieval Studies and SGS) Colloquium: Physics – "Elect-ron-Photon Experiments with a ron-Photon Experiments with a Superconducting Linear Accelera-tor." Prof. Allan Schwettman, High Energy Physics Lab., Stan-ford University. 102 McLennan Physical Laboratories. 4.10 to 5.15 p.m. (Physics)

Russia - "Russian Seminar: Frontier Expansion and the Euro-pean State System in the 18th Century." Prof. Harvey L. Dyck. Upper Library, Massey College. 8 p.m. (History)

p.m. (History)
Seminar: Medicine — "The Biogenesis of the Acetylcholine Receptor during Myogenesis." Dr. John Paul Merlie, Institut Pasteur, Paris, France. 417 Best Institute. 12.30 p.m. (Banting and Best)

Seminar: Environmental Studies – "The World Health Organization: Environmental Programs in Europe." Dr. P.H. Jones, U of T. 211 Haultain Building. 4 p.m.

Film: Kenneth Clark's The Ro-mantic Rebellion. "Theodore mantic Rebellion. "Gericault." Hart House lery. 12.15, 1.15 and 7.30 p.m.

Music - with Stephen Chenette, trumpet, assisted by Susan Chenette, piano; Audrey King, cello; Nancy Hermiston, soprano; Fujiko Imajishi, Kathryn Wunder, violins; Maurice Pelletier, viola; Jane McAdam, double bass and George Brough, harpsichord.
Walter Hall, Edward Johnson
Building. 8.30 p.m. Tickets \$4,
students \$2 with I.D. Cheques

payable to U of T, enclose stamped, addressed envelope stamped, addressed (Music)

6 FRIDAY

Lecture: Dentistry - "Bacterial Specificity in the Etiology of Periodontal Diseases." Dr. S.S., Forsyth Dental Cen-Socransky, ter. Boston, 308 Dental Building ter, Boston, 308 Dental Building.

10 a.m. – 12 noon (Dentistry)
Seminar: Medieval – "The Science of Exempla: A Possible
Medieval Structuralism." Prof.

J.B. Allen. Upper Library, Massey College, 4.15 p.m. (Medieval Studies) Music - Intermediate Orchestra,

directed by Jack Montague. Con-cert Hall, 273 Bloor St. West. 8.15 .m. (Royal Conservatory of Music)

7 SATURDAY

Lecture: Machines - "Men, Wo-men and Machines." Dr. E. Llewellyn-Thomas, U of T. Con-vocation Hall. 8.15 p.m. (Royal Canadian Institute)

Music - New Music Concerts, featuring Pierrette Le Page, Bruce Mather and Robert Aitken, and others, and including four world premieres. Walter Hall, Edward Johnson Building. 8.30 p.m. Reserve by calling 967-5257.

8 SUNDAY

8 SUNDAY
Service – Annual Service of Lessons and Carols for Advent.
Trinity College Chapel. 4.30 p.m.
Music – University of Toronto Concert Choir, conductor, Charles W. Heffernan, Walter Hall, Edward Johnson Building. 3 p.m. No tickets, no charge (Music)

Music - Pierre Auge, concert guitarist. Meeting Place, Scarborough College, 3.30 p.m. Free

## STAFF NOTES

#### Scarborough College

D.E. CAMPBELL will be PROF. spending the next academic year, while on research leave, in the Department of Decision Sciences, Graduate School of Business, Stanford University and the following summer at Cambridge. Prof. Campbell's research is being supported by Canada Council Research Fellowship.

PROF. JOHN KENYON was elected

vice-president of the Canadian Society of Church History at the Learned Societies meetings in June.

#### Erindale College

PROF. LUBA ELEEN attended the joint meeting of the Conference on Me-dieval Studies and the Medieval Academy of American at Kalamazoo, Mich., May 8-11, where she gave a paper entitled "An Italian Cycle of Acts Illustrations." PROF. F.D. TALL attended the Inter-national Congress of Mathematicians in

Vancouver in August, and en route gave talks at the Universities of Wisconsin and Colorado, and at a Topology conference at the University of Wyoming. He and his doctoral student, W.A.R. WEISS, have both invited to address a special session on Topology at the annual meeting of the American Mathematical Society in Janu-

PROF. R. VANDRBURGH has re ceived a grant from the Canada Council for a continuing study of attitudes to-wards environmental exploitation at Cape Croker. She spent the summer on an Ojibwa reserve on the Bruce Peninusla, interviewing people over 65 in the community, Prof. Vanderburgh reports that probably the highlight of the field work, the event that opened all sorts of doors, was a six mile walk around the central limestone bluff that is the outstanding geological feature of the reserve. An eighty-one year old resident of the community took me on this walk, and we became instant local celebrities for our achievement, as few of the younger band members have been all the way around the Bluffs. The entire reserve is visible from the end of the bluff, and I was able to get excellent pictures showing land use, residence patterns, and so on. grant will cover research for another fifteen months, so Prof. Vanderburgh is looking forward to the fall and winter fishing and hunting seasons, as well as another summer on the reserve.

PROF. O. HEGYI participated in the

PROF. O. HEGYI participated in the Fifth International Congress of Hispan-ists, held at Bordeaux, France, Sept. 2–8. During the Congress he read a paper in the Section for Linguistics on "Algunos aspectos del sistema de escritura aljamiado-espanol." (Some aspects of the Alamiado-Spanish writing system). Prof. Aljamiado-Spanish writing system). Prof. Hegyi has been awarded a publication grant by the Humanities Research Council of Canada to assist the publication of "La leyenda de Tamim Addar y otros

"La levenda de Tamim Addar y otros textos aljamiados." The legend of Tamim Addar and other aljamiada texts). It is a lingistic study of a sixteenth century manuscript in the Biblioteca Nacional de Madrid.

PROF. A.J. POE attended seminars and conferences during the summer as follows: at the Hieber Symposium on Metal Carbonyls held at Ettal, Bavaria, July 21–26 he presented a paper entitled "Reactions of Alkynes with Cobalt Carbonyls"; on Aug. 19-24 the 16th International Conference on Co-ordination Chemistry was held in Dublin and Prof. national Conference on Co-ordination Chemistry was held in Dublin and Prof. Poe presented a paper entitled "Substituent Effects on the 'Kinetic' Strengths of Mn-Mn Bonds" prepared in conjunction with R.A. Jackson. At the International Conference on Stability and Reactivity of Metal Complexes held Aug. 54 00 in December 1, 19 Prof. Page 16 10 in December 1, 19 Prof 25-30 in Bressanone, Italy, Prof. Poe presented a paper entitled "Bimolecular Reactions of Metal Carbonyls". He at-tended the International Symposium on 'Metals in Organic Chemistry" held Aug. 31 — Sept. 6 in Venice.

PROF. H.L. WILLIAMS, on sabbatical leave at the Rubber and Plastics Research

Association in England, attended the Institute of Physics Conference on the Inter-relationship of Structure, Properties and Applications of Polymers held in

Nottingham.
PROF. E.J. DAVISON gave two in-PROF. E.J. DAVISOR gave two in-vited papers: "Properties and Computa-tions of Transmission Zeros of Linear Multivariable Systems", "Perfect Control in Linear Systems" at the Pole-Zero Conference on Multivariable Systems held in Cambridge University, England, Sept. 23-26. He also organized and chaired a session on Large Scale Systems at the 12th Allerton Conference on Circuits and Systems held at the University of Illinois, Urbana-Champaign, Oct. 2-4; in this same conference he presented an invited same conterior he presented an investigation paper "The Stabilizability of Large Inter-connected Systems." At the 1974 Joint Automatic Control Conference held at the University of Texas, Austin, June 18-21, he was discusser of a number of papers

PROF. J.W. ADAMOWSKI attended the conference "William Faulkner and Yoknapatawpha County," held at the University of Mississippi (Oxford) from

Aug. 4 to 9.
PROF. J.W. ABRAMS presented a paper "The Canons of Scientific Accept-ability" at the International Congress in Commemoration of the 700th Anniver-sary of the Death of Thomas Aquinas in Naples, April 24. He attended by invita-Naples, April 24. He attended by invita-tion the Symposium on Science in its Relation to War at the Royal Society of London in March. Prof. Abrams pre-sented a paper "An Episode in the History of Operational Research: The Air Anti-U-Boat Campaign (1942-43)" at the annual meeting of the Canadian So-ciety for the History and Philosophy of Science in Toronto, in June. He attended the Congress of the International Union of the History and Philosophy of Science of the History and Philosophy of Science in Tokyo and Kyoto in August and presented a paper on "The Origins of Operational Research" at the Congress. While in Japan he attended and participated in the Symposium on the Transfer

of Technology to Non-Initiating Countries sponsored by the International Committee for Co-Operation in the History of Technology (ICOHTEC) and at-tended a meeting of their executive of which he is a member.

#### Dentistry

DR. B.J. SESSLE and DR. L.F. GREENWOOD attended the 6th International Conference on Oral Biology in Toronto from June 3 to 5 and presented an invited paper entitled "Effects of Trigeminal Tractotomy and of Carbamazepine on Single Trigeminal Sensory Neurones in Cats." Dr. Sessle attended the ACFD/AFDC 8th Biennial Research the ACFD/AFDC 8th Biennial Research and Education Conference in Digby Pines, N.S., from June 17 to 19 and presented an invited paper entitled "The Effect of Aging on Nerve and Nervous Pathways of the Oro-Facial Complex." He was co-chairman and organizer of an He was co-chairman and organizer or international symposium "Mastication and Swallowing: Biological and Clinical Correlates" in Vancouver from Aug. 5 to 8. The symposium was held at the University of British Columbia campus and was jointly sponsored by the Ministry of Health of British Columbia and the Medical research Council. Dr. L.F. Greenwood also attended this symposium and with Dr. Sessle, presented a paper entitled "Pain, Brain Stem Mechanisms and Motor Functions." Drs. Sessle and and Motor Functions." Drs. Sessie and Greenwood are co-investigators of a re-search project "Clinical Neurophysio-logical Study of Acupuncture" that has been funded by the Ontario Ministry of been funded by the Ontario Ministry of Health. Two members of the Faculty of Medicine, DR. R.V. TASKER (Depart-ment of Surgery) and DR. L.W. ORGAN (Department of Physiology) are co-investigators of this study which is one of the first three acupuncture research grants ever awarded by the Ministry to Ontario universities and teaching hospi-tals. The project will be carried out at the Toronto General Hospital and will study the effects of acupuncture on responses the effects of acupuncture on responses to dental and cutaneous stimuli.

### 'Bishop in Honan' - a book tells of White and the ROM



With the purple robes and ring of his office, Bishop White wore the Decoration of the Excellent Crop, presented to him by China for his services to that country.

> The Life lives on The Plan takes shape, The Father's House Awaits the Soul's Long Home

So wrote Dr. William C. White on his last Christmas card, before

on his last Christmas card, before his death in 1960.
Dr. White, former Bishop in Honan, lives on through the world famous collections of Chinese treasures which he presented to the Royal Ontario Museum during the 1920s and 1930s, and now also through a book about his life, just published by University of Toronto Press. Toronto Press.

Bishop in Honan: mission and

museum in the life of William C.
White, is by Lewis C. Walmsley,
also a missionary in China, a
friend of White's, and, from 1948

to 1963, an associate professor of Chinese studies at U of T.

Chinese studies at U of T.
Collecting Chinese archaeology
was the second career in the life
of William White. A man of great
religious sincerity, he wrote in his
diary at the age of 23: "From
now is going to be a new era in
my life. Henceforth I am dead to the world, dead to human love if it comes in the slightest between Christ and me." A year later he sailed to China as a missionary some years before the great flood of missionaries which followed the Boxer Rebellion.

Using excerpts from letters and from his diary, the book details White's years in China, where he adopted the Chinese dress, language and local customs, worked with lepers, organized flood relief and dealt with bandits, as well as raising a family. In 1909, at the age of 36, he was consecrated Bishop in Honan—and became one of the youngest bishops in the Church of England. White collected Chinese arti-

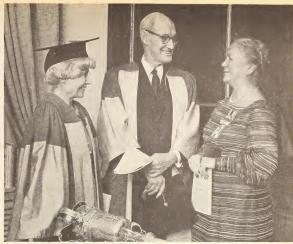
facts that would enable the average Canadian to gain a knowlege of the life of the Chinese people and to appreciate their remarkable civilization. In addition to the furniture, bronzes and paintings which he collected for the ROM, he also brought to Toronto the collection of books which forms the basis of the U of T's Chinese

Library (see story on this page).

Bishop White returned to
Toronto in 1934 to become
Keeper of the ROM's Far Eastern

Reeper of the ROM's Far Eastern Galleries, and in the same year he founded the School of Chinese Studies at U of T.

The book on Bishop White's life produced by the U of T Press is beautifully designed and printed, and includes finely reprinted, and includes finely re-produced photographs of some of the treasures collected by the bishop and now in the Bishop White Gallery at the ROM. A list of publications by White and an index make the book of value to scholars but this is also a similischolars, but this is also a significant book for anyone interested in Chinese history during the early decades of this century



Honorary graduands Grace MacInnis and Donald Creighton with Lieutenant-Governor Pauline McGibbon



## East Asian Library finds home in Robarts

The University's collection of Chinese and Japanese books, journals and microfilm – among the best in North America – has been moved from the Textbook Store to the eighth floor of the Robarts Library. Growing at a rate of nearly 4,000 items a year, the collection had long since outgrown its former home, said the chief librarian of the East Asian Library, Mrs. Anna U.
Subjects covered by the books,

many of which are hand-copied, range from history, philosophy, and literature to an ancient book of rules of Chinese games. Prize of the Chinese section is the "Mu collection" of volumes dating from the Ming dynasty (1368-1644) or earlier. Collected

about the turn of the century in Peking by Mu Hsuen Hsun, the books were brought to Toronto in 1935 by the Right Rev. William C. White, former Anglican Bishop of

Honan.
Prof. W.A.C.H. Dobson, when East Asian Studies, obtained more books for the collection in 1953 with a grant from the Carnegie Corporation. Under his direction the library grew into a "modern workable research collection" and formally became the East Asian Library with its own librarian in

The foundation for the Japanese collection was laid in 1961, with the aid of a Canada Council grant to Dr. W. Simon, professor

emeritus at the University of London, and visiting professor in the Department of East Asian Studies. The collection grew strongly throughout the 60s, helped by a grant from the Donner Canadian Foundation and Donner Canadian Foundation and a donation of books from the Japanese government. The parti-cular strength of the present col-lection, says Mrs. U, is in Japanese

Books from this library are available to staff and students of the University under the normal the University under the normal loan regulations. Meanwhile, final sorting and arranging of the 120,000 volumes continues among the appropriately bright red furnishings of Room 8049, Robarts Library.

U of T wins two prizes at media festival

Two U of T productions have won prizes at the Canadian In-structional Media Festival, an annual competition for institu-tionally produced instructional programs from across Canada.

"Welcome to the Faculty of Library Science", produced by the Faculty of Library Science received an Award of Merit in the automated slide-tape category. The seven minute program for three screens traces the history of library science in Ontario since

1928, ending with information on the present facilities of the Faculty housed in the Robarts Library

A second program, "Going to A second program, "Going to Canada: In the Backwoods" won in the videotape category, Based on the diaries of Anne Leveridge and contemporary pictorial ma-terial, it tells of the hardships and triumphs of a family settling in eastern Canada in the late 19th century. The program, one of a series of 13 entitled "Victorians", was produced by the IL I of was produced by the U of T Media Centre with Prof. Alan

Thomas of the Department of English. This is the second program from this series to win a prize. Last year, at the same festual, "The Poaching Life" received an award. The series is currently being televized on OECA-TV. (Channel 19 in the Tropptle area. Toronto area.)

Inquiries about "Welcome to the Faculty of Library Science" may be addressed to Paul Hope (7168). "In the Backwoods" can be seen by calling the Program and Library Services Section of the Media Centre (6560). During Woodsworth Week at our newest college, Mrs. Grace MacInnis unweiled a bust of her father, the late James S. Woodsworth, and a plaque for the college. Here she is seen uncovering the plaque, with Principal Arthur Kruger at the right, At the same function Mrs. Audrey Trincipal Artini Kage at the tight, At the same function in Audies' Huges, president of Woodsworth College Alumni Association, presented to Mrs. MacInnis the only bound copy of "James Woodsworth—the Man and the College", given by Prof. Desmond Morton shortly after the formation of the college.

### Third world and its future

Some basic changes in attitude and foreign policy will have to be made by Canada and other west-ern governments, if they are really concerned about the future of third world countries. At the same time many of these countries will have to undergo revolutions to rid themselves of corrupt govern-ments, some of whose ministers are using foreign aid to buy flashy

cars, and pad their bank accounts.
That observation was made
earlier this week by Prof.
Frederick Case, organizer of tomorrow's one-day symposium on the third world and its future, to be held at New College starting at

9.30 a.m.
"The lack of sincerity among some western countries is glar-ing," said Prof. Case, who added that foreign aid is often used by western nations to maintain corrupt governments among third world countries, so they can be dominated.

He is particularly critical of the arrogant attitudes that western nations currently hold. "Even within western countries problems of black people and other minor-ity racial groups are ignored unless they also affect the white middle

class. Heroin was a serious problem in the black ghettos since the turn of the century," he noted, "but it wasn't until it affected the white segment of society that it suddenly became a national problem."

Problems of food shortages and overpopulation can be greatly al-leviated in the third world, Prof. Case says, if western nations are willing to help develop currently useless agricultural land, some of which has great potential.

"Oil companies are willing to spend millions of dollars on exploration but when it comes to digging 200 feet to tap water desperately needed for irrigation, funds are unavailable."

It is essential that third world countries rule themselves and that foreign governments, like Can-ada's, help out only when specifi-cally requested to do so, according to Prof. Case.

"But right now Canada is a colonial power in its own right, having economic control of the Caribbean islands. Here foreign control is so dominant that even taxi cab services are frequently foreign owned."

## High energy physics moves fast

Dr. P.J. O'Donnell, who contributes the following article, is professor of physics both at the St. George and Scarborough campuses. "Events are happening so fast in the field of high energy physics," he says, "that the article I wrote on Friday last was already old history the following Monday, when the Stanford group of high energy physicists announced their further discovery of an even more mastive particle, equivalent to 3.7 billion electron volts. These recent discoveries imply a real change in our understanding of the structure of matter."

About two weeks ago it was announced that a new sub atomic particle named Psi had been discovered and papers along the substantial particle named Psi had been discovered and papers appear in the particle particle of the Physical Review Letters. The new particle, with mass equivalent to just over three billion electron volts, was discovered independently by two groups of physicists. One group at the Stanford Linear Accelerator Center (SLAC) in California, and consisting of Porf. B. Richter and 34 other physicists, found that particle while doing experiments

on electron-position annihilation at the SLAC electron-positron storage ring facility (SPEAR).

The other group which reported the discovery of this new particle was that of Sam Ting and 13 others at the Brookhaven National Laboratory in Long Island, New York. Ting's group found 500 events corresponding to a mass of just over three billion electron volts and very few outside this region. They christened it he J particle (apparently this is similar to a Chinese script for Ting!).

Normally particles are found's fairly frequently in high energy physics – there are about 200 or so listed in the little blue book which most particle physicists carry in their hip pockets. So why all the fuss about this one? The reason is that this one is fundamentally different from most of the others. Among particles of its type it is about twice as heavy as existing known ones but, more important, it is inhibited from decaying into any of the many existing lighter particles. It will also have a significantly longer life-time.

This could mean the discovery of a new quantum number or selection rule, just as in the discovery of "strangeness" about wenty years ago. This new quantum number (cailed "charm") has been hoped for by many theorists over the past few years since some of the most elegant of recent theories seems to require such a selection rule. Another possibility is that it could be the long awaited W boson — a particle which has been postulated for about 20 years to mediate the weak interactions of sub-atomic particles. If this is the case, however, it would seem to negate the recent advances in the unification of the weak and electromagnetic interactions.

Since all that is known about this particle at this time from experiments is that it exists, it is clear that a great deal of emphasis, both experimental and theoretical, will be placed on obtaining further information about it as soon as possible for it does represent a new phenomenon in our attempts to understand the basic laws of nature.



THE NEARLY PACKED CNE stadium for the College Bowl game showed that collegiate football squads can draw fans in considerably larger numbers than some professional teams. The 26,450 (only 300 short of the intercollegiate game record) saw Varsity Blues lose the Canadian championship 19—15 to Western Mustangs. Above, Rick Jeysman (33), Blues' defensive halfback, watches teammate Richard Nakatsu tackle Western's Richard Scarborough. (This photo, and last week's front page picture, courtesy of The Varsity.)

Weekend intercollegiate games

### Research News

Nuffield Foundation travel grants

Nuffield Foundation travel grants are available for established scholars who wish to undertake research which can only be carried out in the United Kingdom. The grants provide air fare and assistance with living expenses. Preference is given to Canadian citizens over 35. Persons who have held this award previously are not eligible. Completed applications must reach Ottawa by Jan. 1. Forms are available from A.U.C.C., 151 Slater St., Ottawa, Ontario, KIP SNI.

#### December Deadlines

Anyone wishing to submit an application to one of the following agencies should be sure to submit as soon as possible to avoid delays due to Christmas holidays: Addiction Research Foundation; Environment Canada, atmospheric and forestry

programs; Department of Manpower and Immigration; and Nuffield Foundation. Applications to these agencies should reach ORA no later than Friday Dec. 6.

#### Central Mortgage and Housing Corporation

There has been a major change in the policy of CMHC regarding research projects. All research must now serve the goals and objectives of programs under the National Housing Act. Requests for funds should be directed to the director, research coordinating division, in the form of a three-page letter outlining the intended research, explaining what is to be done, why the applicant wishes to undertake the research, how the research will be carried out, what the expected results might be, and a rough indication of the budget. This outline should be forwarded, in souther some continuing the control of the budget. This could be controlled to the control of the budget. This could be forwarded, in

two copies with the necessary signatures, and an application attachment (form ORA 5) to ORA.

#### Imperial Oil Ltd.

Research grants are available from Imperial Oil Ltd., for faculty members wishing to undertake specific projects in physical softenese, engineering, environmental and social sciences. The grants range from \$2,000 to \$3,000 and are made for one year but may be renewed. Application forms are available from ORA. Completed forms should be returned to ORA by Jan. 31 in order to reach Imperial Oil by the deadline. Call 928-2874 for forms or additional information.

#### Accommodation

Annex home for rent for six months, available Dec. 18; unfurnished, nine rooms, three washrooms, four or five bedrooms, two kitchens; all appliances; fireplace; garage; rental \$500 month. Call 921.2452

Spacious furnished house for rent in Agincourt, half an hour by car to St. George Campus; four-bedroom backsplit, three baths, one en suite, large family room with fireplace, modern kitchen including dishwasher, stove, frig/freezer; main floor laundry with washer and dryer; large fenced garden, quiet residential neighbourhood, close to schools, parks, TTC, shopping centres, etc. vaulable from Jan. 1 to end of June. S575 a month. 291-2949. Elegantly furnished three-

Elegantly furnished threebedroom executive home located in prestige area, five minutes walking distance to York Mills subway; available from Jan. 1 to March 31, 1975, at \$450 per month. Call 223-7807.

#### Conservatory to Lahr

The Royal Conservatory of Music, at the invitation of the Department of National Defence, is about to establish its first overseas branch on the Armed Forces Base in Lahr, West Germany.

Miss Patricia Lemoine, a member of both the Conservatory fa-

Miss Patricia Lemoine, a member of both the Conservatory faculty and Board of Examiners, is leaving to supervise this project, which involves the instruction of students from all parts of Canada now living in the West German locality. Friday, November 29

Men's hockey: Toronto vs Western — Arena, 8 p.m.

Women's basketball: Toronto vs Ottawa — Benson Bldg., 7.30 p.m.

Saturday, November 30

Women's basketball: Toronto vs Carleton — Benson Bldg., 11 a.m. Water polo: OUAA championship at Ottawa.

## WUSC plans special week

The World University Service of Canada (WUSC), an international organization of university students and faculty, is sponsoring an International Craft Sale and Film Festival as part of its program for Third World Week at U of T, during the week of Dec. 1 – 6, at the International Student Centre, 33 St. George St.

the International Student Centre,
33 St. George St.
Handicrafts will be on sale from
12 noon to 9 p.m. each day,
Monday, Dec. 2 to Friday, Dec. 6,
in the Pendarree Room. The selection of over 200 different items
includes battlis from Kenya, carvings from Honduras, ponchos
from Bolivia, and rugs from Pena.
All the material for sale was made
in co-operatives, profit sharing
handicraft centres and other projects designed to benefit the
workers themselves. The sale provides a market for the products of craftsmen from developing countries and raises funds for WUSC projects overseas and in Canada.

projects overseas and in Canada.
A Festival of Films about and from developing areas will be shown in the Cumberland Room Sunday, Dec. 1, and Tuesday Dec. 3 to Friday Dec. 6 at 7.30 p.m. Admission is \$1 each night.
The following films will be

The following films will be blowing films will be liveroy. Palestine: "A Problem of the Victory", Palestine: "A Problem of the Victory", Palestine: "A Problem of the Victory", Palestine: "A Problem of the Victory of

### EXHIBITIONS

Exhibition to mark the centenary of the birth of Dr. C.B. Farrar, including artefacts and relics displayed to the public for the first time, and a special audiovisual presentation. Farrar Library, Clarke Institute, corner College and Huron Sts. 11 a.m. - 3 p.m., Dec. 2-6.

Earla Alexandra – exhibition of large paintings dealing with the subject of colour explorations. Main Foyer, Preliminary Building, Erindale College. Dec. 9–31.

#### Show and sell crafts at Hart House

There will be a Craft Exhibition (Show or Sell) open to the University community, in the Hart House Art Gallery from 11 a.m. to 2 p.m. each day, Wednesday, Dec. 11 to Wednesday, Dec. 18, sponsored by the Hart House Craft Club.

All craftsmen are encouraged by the club to submit entries, however modest. Entry forms are available from the program office at Hart House, and articles for the exhibition should be taken to the business office between 9 a.m. and 5 p.m. on Dec. 9 and 10.



THE ORFORD STRING QUARTET, in residence at the Faculty of Music, has won first prize of \$7,000 in the European Broadcastium Union International Competition. Quartets from many countries were sponsored by their national radio networks, the Orfords by the CBC. The finals were held in Stockholm on Nov. 17. Left, front, is Andrew Dawes, with Kenneth Perkins behind. Terence Helmer is at right, and Marcel St. Cyris cellist.